

CONFIDENTIAL

16 November 1959

MEMORANDUM FOR: Office of Logistics/Procurement Division/Contract Branch

SUBJECT: Request for Increase in Scope, Additional Funds, and Extension of Time under Task 2 of Contract ND-26 with [redacted]

1. It is requested that your office take the appropriate action to amend the scope of Task 2 under Contract ND-26 with [redacted] to include the preparation of working drawings of the Type 2 Prototype Incinerator and a review of the major problems anticipated for the fabrication of this incinerator.

2. Additional funds in the amount of \$5,000.00 are to be made available to the contractor for a three month period of performance, thereby extending the expiration date of Task 2 until 1 February 1960. Charges are to be made against Allotment Number 0985-1009-4901.

3. The contractor's proposal for this additional work is attached hereto.

4. Further information concerning this request may be obtained by contacting [redacted] project engineers for this program, on [redacted]

A 2h

Chief

TSS/Engineering Division

## Attachments:

Proposal dtd 23 Oct 59  
TSS-RLJ-27-1457-60

APPROVED FOR THE OBLIGATION OF FUNDS:

Research Director

## Distribution:

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*Rec'd EO 10/28/59*  
*10 30 Oct 59*

In replying please address:



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October 23, 1959

Dear Sir:

In accord with a recent discussion with your technical representative, we are submitting herewith a proposed program which describes an additional effort to be performed under Task Order No. 2. The proposed effort would be directed toward the preparation of working drawings of the Type 2 Prototype Incinerator; and also of a brief resume of the major problems anticipated, by us, in the construction of the Type 2 Prototype Incinerator by commercial fabricators and of our recommended solutions.

The experimental air-film-cooled incinerator which has been under development under Task Order No. 2 has reached the stage where the requirements of your technical representatives have generally been satisfied. The first experimental unit, hereafter referred to as the Type 1 Prototype Incinerator, was provided to your technical representatives in July, 1959, for further evaluation and demonstration. These demonstrations evoked favorable reactions with regard to the performance of the Type 1 Prototype unit. However, the operating experience gained by our technical personnel and, more recently, by your technical representatives suggested that selected desirable modifications to the Type 1 unit merited investigation;

-2-

October 23, 1959

and, if these were found to be worth while, they would be incorporated in the design of the experimental air-film-cooled incinerator.

Subsequently, an effort was undertaken under Task Order No. Z that was directed toward the preparation of a second experimental incinerator, hereafter referred to as the Type 2 Prototype Incinerator; the design of the Type 2 unit was to include certain modifications after investigation had shown them to be worth while. This experimental unit was to be used at our facilities in connection with a further investigation of an experimental feeding mechanism that is also being performed under Task Order No. Z. The Type 2 Prototype unit has now been prepared, and burning experiments have indicated its operation to be quite satisfactory. Also during this period, additional demonstrations and experiments conducted by your technical representatives have evoked requests for additional units. To satisfy this "customer demand", your technical representatives contemplate the commercial fabrication of a few Type 2 Prototype Incinerators.

Ideally, additional units would normally be prepared commercially on the basis of detailed specifications and drawings, which would provide a basis for commercial fabricators to make accurate bids and subsequently to perform the fabrication effort; also, such specifications and drawings could be used by your technical representatives to assure the delivery of suitable units, with only a minimum of contact between them and the selected commercial fabricator. However, the preparation of satisfactory detailed specifications and drawings requires considerable time and expense. Also, the subsequent operation of a few additional units might well indicate desirable modifications which might have to be incorporated in any such

-3-

October 23, 1959

specifications and drawings. Consequently, in the interest of economy of time and funds, your technical representatives are contemplating the preparation of a few additional Type 2 Prototype units, by a commercial fabricator, on the basis of working drawings.

We have been requested to consider providing for an additional effort under Task Order No. Z, that would involve the preparation of suitable working drawings of the Type 2 Prototype Incinerator, and of a brief resume of anticipated fabrication problems and our recommended solutions. A proposed additional effort directed toward achieving the above-indicated objective is described in the following.

On the basis of our experience, we concur that it is quite practicable to utilize working drawings as a basis for fabrication. However, certain associated factors should be recognized. While they would be prepared carefully, these working drawings would not have the benefit of the large amount of thought and scrutiny that normally is applied in the preparation of detailed specifications and drawings with regard to consideration of the most economical methods of production, thorough specification of all pertinent aspects of fabrication and materials inspection, and means of inspection and the basis for rejection of the manufactured items. As a consequence, a larger than normal amount of time will have to be expended by your technical representatives or by our personnel in maintaining closer general liaison with the selected commercial fabricator, and specifically in providing guidance and assistance to the fabricator at difficult stages of manufacture and during inspection of the different parts. In addition, after commercial fabrication of the required number of units

-4-

October 23, 1959

is concluded, some time will have to be allowed for minor modification and adjustment of the units, in order to insure proper operation.

As currently contemplated, the proposed effort would be performed by two of our engineering personnel, using the necessary drafting assistance. One of these technical personnel has been closely associated with all of the research conducted under Task Order No. 2 and knows intimately all aspects of the Type 1 and Type 2 Prototype Incinerators. The other technical and drafting personnel have been involved previously in the preparation of drawings for your organization and are well aware of the requirements of a satisfactory set of working drawings and/or of a suitable presentation of the anticipated fabrication problems. It is currently planned that the proposed effort would be supervised by an additional member of our technical staff who has been responsible previously for the preparation of several sets of detailed specifications and drawings, and of several sets of working drawings for your organization.

Every effort would be made to prepare, expeditiously, as complete and comprehensive a set of working drawings as is possible, within the limits of the time and funds provided. On the basis of our general background and our specific experience with the Type 1 and Type 2 Prototype Incinerators, it is currently estimated that the preparation of a suitable set of drawings and of an appropriate write-up on anticipated fabrication difficulties would require a concerted effort for approximately one month.

When the proposed effort was concluded, a reasonable, mutually agreed upon number of copies of these items would be transmitted to your technical representatives; also, a summary letter report would be submitted that described the activity carried on under this program.

SECRET

-5-

October 23, 1959

It is proposed that the contract provide for an additional three-month period of research, with an increase in the estimated appropriation of \$5,088, which includes an increase in the fixed fee of \$288. A general breakdown of the estimated appropriation increase is attached.

The proposed contract would be a period-basis research agreement, consistent with our current contractual arrangements and providing only for a fixed period of research leading toward the objective outlined above.

If you should need any additional information, please let us know. Any inquiries of a contractual nature may be directed to  at Extension 159.

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Very truly yours,

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NRS:aln

In Duplicate

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